- 1. (original) A metal fiber concrete mix based on cement, aggregates and water, which includes metal fibers having: a diameter of between 1.15 mm and 1.8 mm, an aspect ratio of between 35 and 45; and in which the quantity of these metal fibers is such that their weight is at least 80 kg/m³ of hardened concrete.
- 2. (original) The concrete mix as claimed in claim 1, in which the metal fibers have an aspect ratio of around 40.
- 3. (currently amended) The concrete mix as claimed in either of claims 1 and 2, claim 1, in which the metal fibers have a length of between 45 and 65 mm.
- 4. (currently amended) The concrete mix as claimed in any one of the preceding claims, claim 1, in which the dosage of metal fiber is between 80 and 180 kg/m $^3$ .
- 5. (currently amended) The concrete mix as claimed in any one of the preceding claims, claim 1, in which the cement has a grain size of between 1 and 100  $\mu$ m.
- 6. (currently amended) The concrete mix as claimed in any one of the preceding claims, claim 1, in which the aggregates comprise sand having a grain size of between 1 and 5 mm.
- 7. (currently amended) The concrete mix as claimed in any one of the preceding claims, claim 1, in which the aggregates comprise coarse elements with a size of between 5 and 25 mm.
- 8. (currently amended) The concrete mix as claimed in any one of the preceding claims, claim 1, in which the metal fibers are steel wire fibers.

- 9. (currently amended) The concrete mix as claimed in any one of the preceding claims, claim 1, in which the metal fibers have a straight, corrugated, ribbed or hooked shape, or a combination of these shapes.
- 10. (currently amended) A metal fiber concrete element obtained by pouring and hardening a concrete mix as claimed in any one of the preceding claims. claim 1.
- 11. (original) The concrete element as claimed in claim 10, which is obtained by pouring into a formwork or mold.
- 12. (currently amended) The concrete element as claimed in claim 10 or 11, said element having a generally plane shape and a slenderness ratio of up to 35, but containing no conventional reinforcements.
- 13. (currently amended) The use of a concrete element as claimed in any one of claims 10 to 12 claim 10, as structural or decorative element in a construction, especially as a floor slab, shell, retaining wall, beam, column, foundation slab or raft.
- 14. (currently amended) The use of a concrete mix as claimed in any one of claims 1 to 9 claim 1 for the construction, by pouring into a mold or formwork, a structural concrete element such as a floor slab, a shell, a retaining wall, a foundation slab, a raft, a beam or a column.
- 15. (currently amended) The use of a concrete mix as claimed in any one of claims 1 to 9 claim 1 as ready mixed concrete.